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(54) Title: METHOD, SYSTEM AND COMPUTER PROGRAM PRODUCT FOR DETERMINING THE CELL AREA OF A BASE STATION BY TAKING INTO ACCOUNT PIXEL OF TERRITORY SPECIFIC QUANTITY OF TRAFFIC, AND NETWORK PLANNED USING THIS METHOD
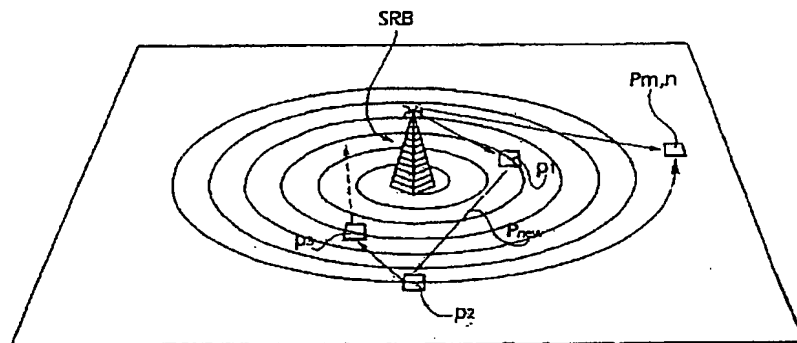
(57) Abstract: The invention relates to a method for planning a telecommunication network for radio apparatuses including a plurality of cells distributed over a geographical area, each of which comprises a set of elementary areas of territory called pixels (pm, n) adapted to receive a radio signal irradiated by a fixed radio base station (SRB), in which for each cell is determined a service area comprising the location of the pixels of territory of the cell in which the network is able to provide predetermined services to the mobile apparatuses located therein. The pixels of territory belonging to the service area pertaining to a predetermined cell are identified according to a criterion for selection in succession based on the values of a sorting function, which is a function of the quantity of traffic pertaining to the pixels of territory being examined, and the resulting service area is computed as a set of the pixels of territory of the cell progressively selected in a manner that the sum of the contributions of the individual pixel does not exceed a predetermined limit value of the load factor of the cell. The invention further relates to a computing system and to a computing program or group of programs executable by the system, adapted to implement the aforesaid method.